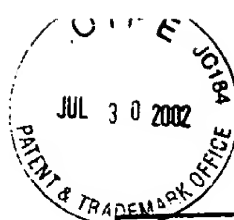


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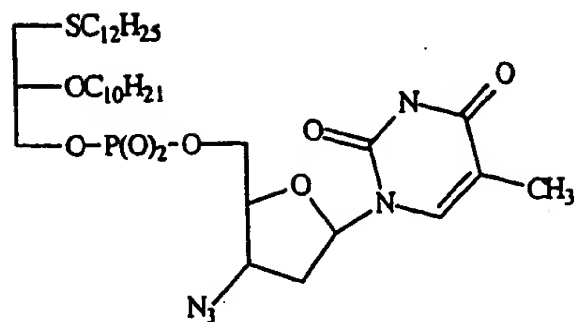


FIGURE 1A

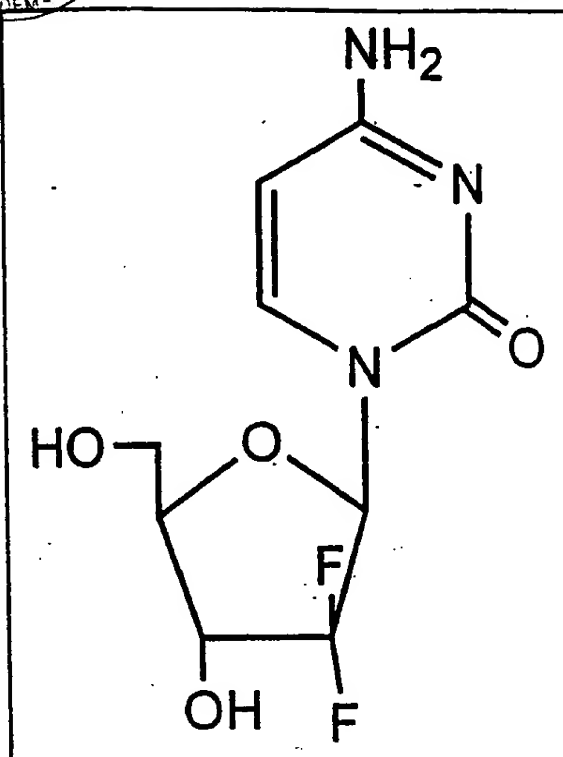


FIGURE 1B

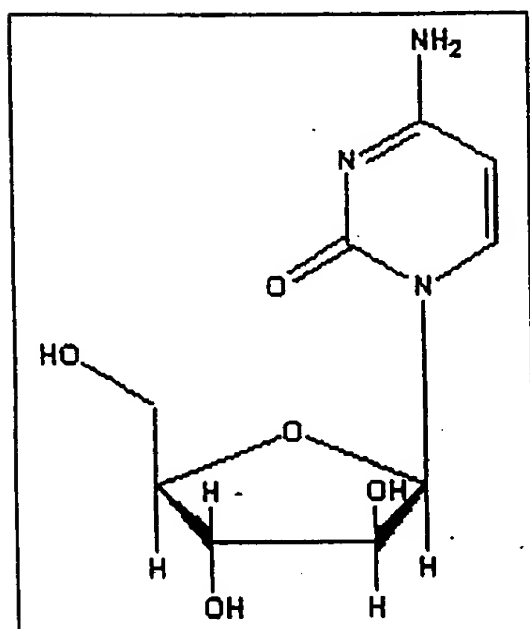


FIGURE 1C

Synthesis of Lipid Backbone

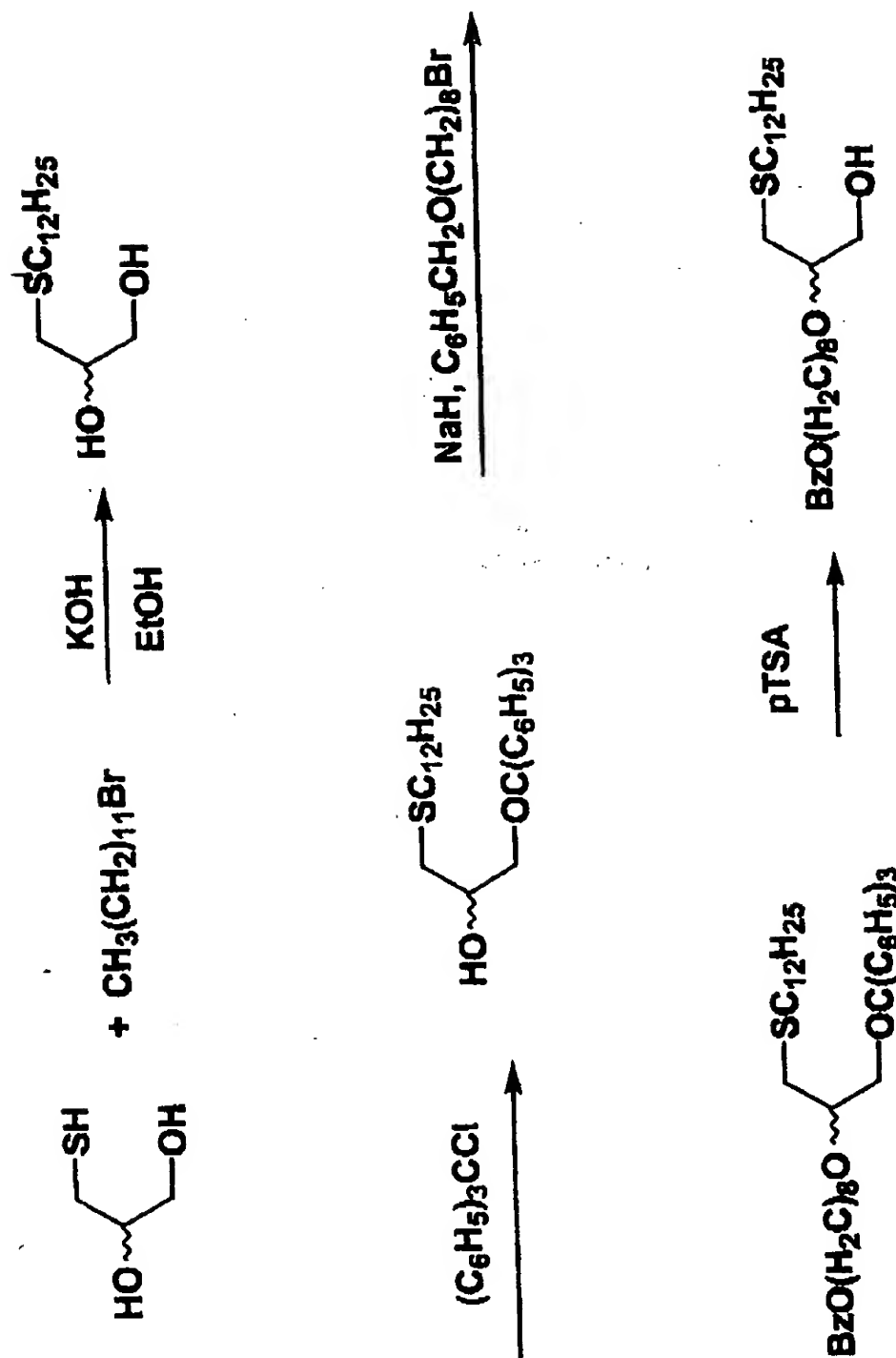


FIGURE 2

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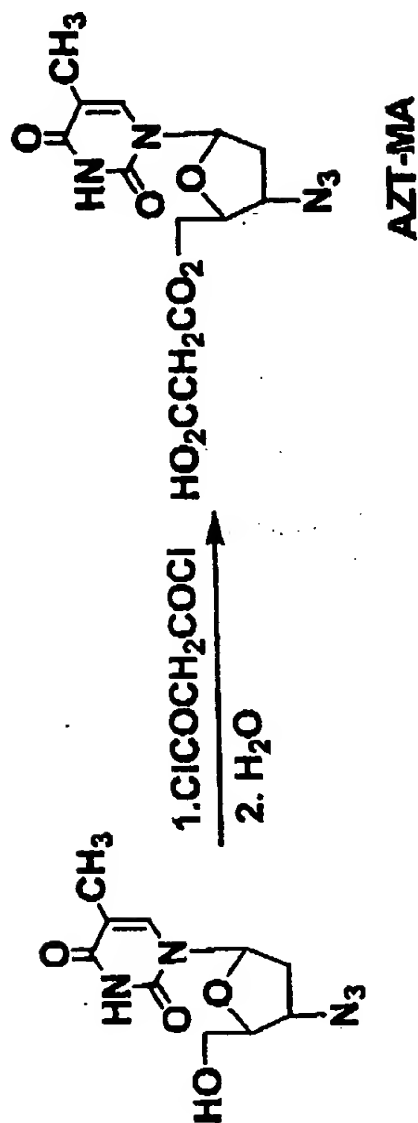
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Synthesis of AZT-Malonic Acid (AZT-MA)



Substituted malonic acid chlorides (CICOCHR(COCl)) could
also be used in the above reaction;
R = CH₃, CH₂CH₃, C₆H₅

FIGURE 3

Synthesis of AZT-Phosphocholine Conjugate

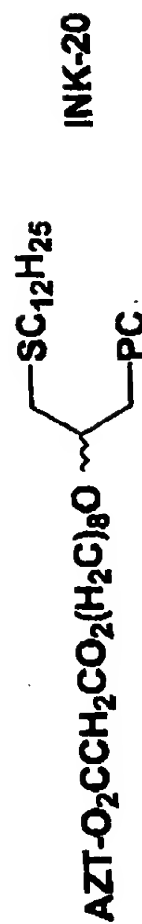
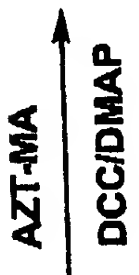
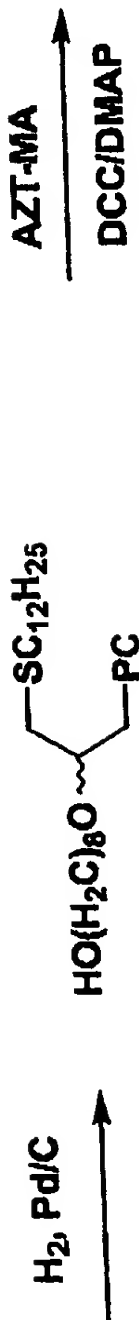
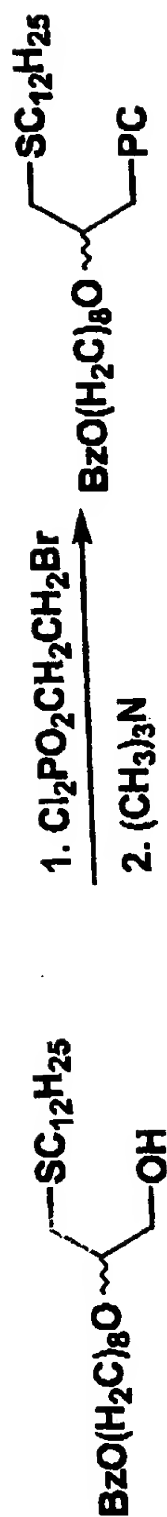


FIGURE 4

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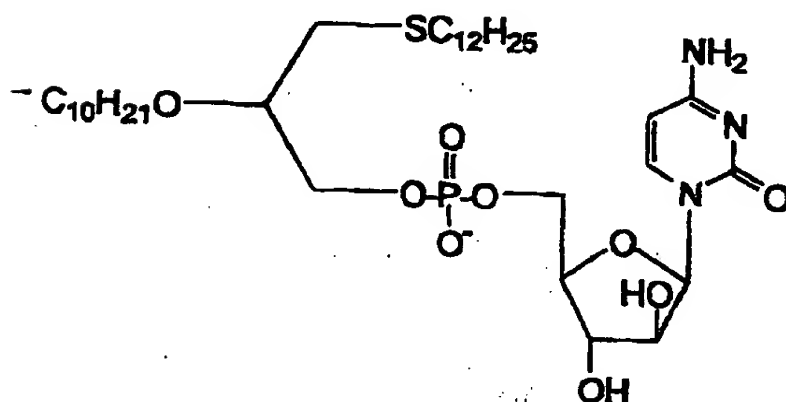
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lipid & ara-C coupled through phosphate ester



lipid & gemcitabine coupled through phosphate ester

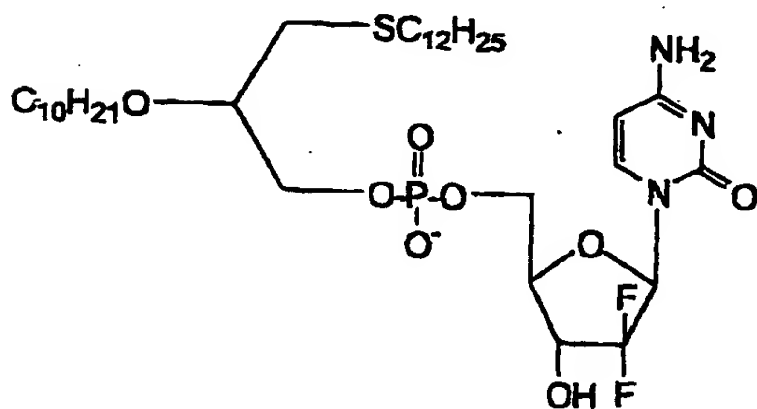
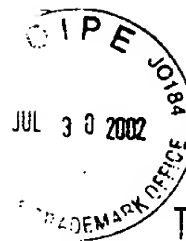


FIGURE 5

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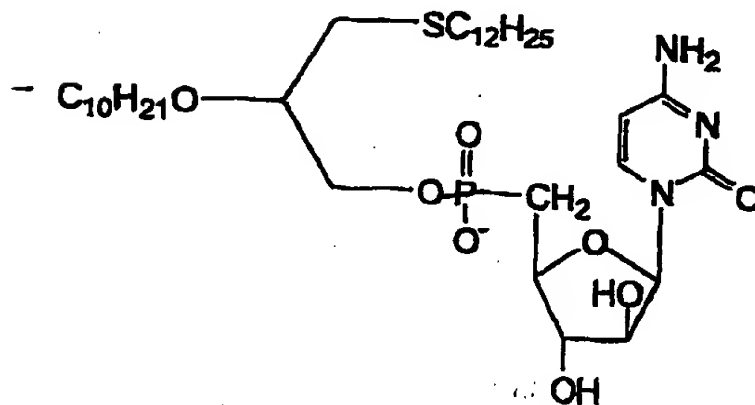


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lipid & ara-C coupled through phosphonate ester



lipid & gemcitabine coupled through phosphonate ester

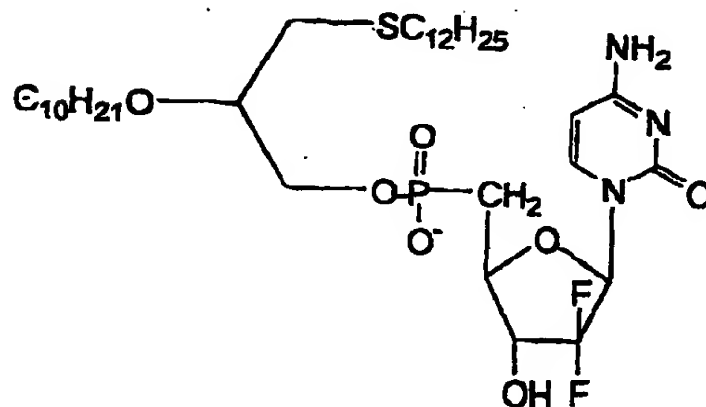


FIGURE 16



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lipid coupled to methotrexate through an ester

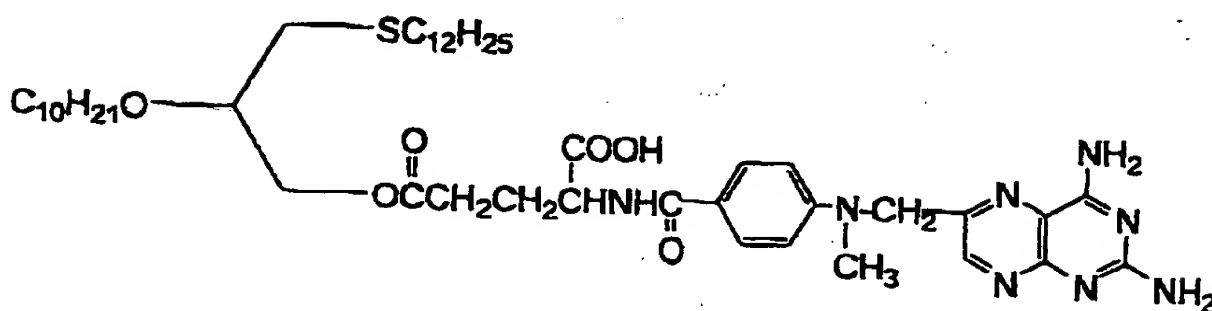


FIGURE 7